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## **CLAIMS**

## What is claimed is:

An electrical connection structure for terminating an electrical signal wire and electrically coupling the electrical signal wire to a target circuit board, comprising:

- an electrical circuit substrate to which the electrical signal wire is coupled, the electrical circuit substrate having a proximate end being coupled via solder to the
- target circuit board, the electrical circuit substrate being substantially perpendicular to the target circuit board; and
  - a termination circuit mounted substantially at the proximate end of the electrical circuit substrate, the termination circuit being electrically coupled to the electrical signal wire and the target circuit board.
  - 2. The electrical connection structure of claim 1, wherein the electrical circuit substrate is a rigid circuit board.
  - 3. The electrical connection structure of claim 2, further comprising: a guide pin connected to the rigid circuit board, the guide pin protruding through a corresponding alignment hole in the target circuit board.
- 4. The electrical connection structure of claim 2, wherein the termination circuit comprises at least two stacked passive electrical surface-mount components.
  - 5. The electrical connection structure of claim 2, wherein the termination

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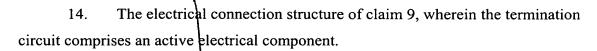
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- 6. The electrical connection structure of claim 2, wherein at least one electrical signal wire may be connected to either side of the rigid circuit board.
- 7. The electrical connection structure of claim 2, wherein the electrical signal wire is a coaxial signal wire having a shield electrically coupled to the rigid circuit board.
  - 8. The electrical connection structure of claim 2, further comprising a protective cover that at least partially encloses the rigid circuit board.
  - 9. The electrical connection structure of claim 1, wherein the electrical circuit substrate is a flex circuit.
    - 10. The electrical connection structure of claim 9, further comprising: a rigid board attached alongside the flex circuit at the proximate end opposite the side of the flex circuit where the termination circuit is mounted.
  - 11. The electrical connection structure of claim 9, further comprising: a socket connected to the flex circuit, the socket being capable of receiving a mating plug to which the electrical signal wire is connected.
- 12. The electrical connection structure of claim 9, further comprising: a guide pin connected to the flex circuit, the guide pin protruding through a corresponding alignment hole in the target circuit board.
- 13. The electrical connection structure of claim 9, wherein the termination circuit comprises at least two stacked passive electrical surface-mount components.



15. The electrical connection structure of claim 9, wherein the flex circuit is a rigidized flex circuit.